

administered.

41. System according to claim 17, that includes a data input device (EK) for entering carbohydrate units consumed by a patient and their times of consumption, and then determines the portion (KH_{wirk}) of carbohydrate units consumed that take effect in the interval between t_a and t_p and takes KH_{wirk} into account in the determination of the insulin dose to be administered.

42. System according to Claim 19, in which X, as the addend, contains the quantity $G_{\text{basal}} = I_{\text{basal}} * SE * C$, whereby I_{basal} is the patient's basal insulin demand over a 24-hour period, SE is the patient's insulin sensitivity, and C is an empirical weighting factor.

43. System according to Claim 20 in which X, as the addend, contains the quantity $SG * A$, whereby SG is the slope of glucose concentration at the point in time t_a , and A is an empirical weighting factor.

44. System according to Claim 17, in which the insulin dosage ID to be administered subcutaneously is calculated using the following formula:

$$ID = ((G_P - G_R) / SE * E) + Y, \text{ whereby}$$

G_R is a target glucose concentration or a maximum acceptable glucose concentration, E is an empirical weighting factor, and $Y = 0$ or is unequal to zero.

45. System according to Claim 27 that contains a display unit for displaying an insulin dose to be administered, as well as an editing unit which the patient can use to change the insulin dose to be administered before it is administered.

REMARKS

The specification has been amended at page 1 line 2 to add a specific reference to prior applications in the first sentence of the application. In addition, the specification has been amended at page 1 line 2 and page 6 line 5 to add section headings. In addition to the section headings, a Brief Description is now placed before the Detailed Description of the Invention. Support for the Brief Description of the Drawings can be found at page 13 line 20 to page 14 line 4. In addition, the specification has been amended at page 12 line 24 to correct a typographical error. Support for this change can be found at page 12 line 25. No new matter is added by virtue of the amendments to the specification.

Claim 11 has been cancelled without prejudice or disclaimer of the subject matter claimed therein. Claims 5, 12, 14, 15, 18, 20, 21, 22, 31 have been amended to remove their multiple

dependencies. Claims 1 and 13 have been amended to more particularly point out and distinctly define the present invention. Claims 32-45 have been added to point out more specifically the subject matter of the present invention. The additional claims find support in the specification and drawings. No new matter is added by virtue of the new claims or by the amendments to the claims.

The claims as submitted herein are believed to be in condition for allowance, and allowance of the application is respectfully requested. In addition, it is respectfully requested that if necessary, this paper be considered as a Petition for an Extension of Time sufficient to effect a timely response and add fees to Deposit Account Number 50-0877 with reference to (RDID 0006US).

Respectfully submitted,

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